

Material Safety Data Sheet

High Fibrinogen Control

Section 1 - Chemical Product and Company Identification

MSDS Name:

High Fibrinogen Control

Catalog Numbers:

033240, 100607, 200475, 200607, 23033240, 23176510, 250607, NC9943524

Synonyms:

Thrombostrate Level V.

Company Identification:
 Fisher Diagnostics
 Fisher Scientific Company LLC
 8365 Valley Pike
 Middletown, VA 22645-0307
Company Phone Number:

(800) 528-0494

Emergency Phone Number:

(800) 528-0494

CHEMTREC Phone Number:

800-424-9300

CHEMTREC (International):

703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent	EINECS/ ELINCS		
7365-45-9	HEPES	0.6%	230-907-9		
9001-32-5	Human Fibrinogen	0.3%	232-598-6		
1310-73-2	Sodium hydroxide	0.08%	215-185-5	C	35
7447-41-8	Lithium chloride	0.04%	231-212-3		
9011-04-5	Polybrene	0.001%	Not available		

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Appearance: white solid

Caution! Each unit of source material used in the preparation of this product has been tested by an FDA licensed method and found non-reactive for HBsAg and negative for antibodies to HIV and HCV. However, no known test method can offer complete assurance that products derived from human blood will not transmit hepatitis, AIDS, or other infectious diseases. This product, like all materials of human origin, should be handled as potentially infectious biological material. May cause irritation. May cause central nervous system effects.

Target Organs: none.

Potential Health Effects**Eye:**

May cause eye irritation.

Skin:

Prolonged and/or repeated contact may cause irritation and/or dermatitis. Product tests non-reactive for HBsAg and negative for antibodies to HIV and HCV. However, material should be handled as potentially infectious.

Ingestion:

May cause irritation of the digestive tract.

Inhalation:

Inhalation may produce headache, dizziness, blurred vision, lowered blood pressure, slow pulse and respiratory tract irritation.

Chronic:

No information found.

Section 4 - First Aid Measures**Eyes:**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin:

Get medical aid. Flush skin with plenty of soap and water.

Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Treat symptomatically and supportively.

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Section 5 - Fire Fighting Measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media:

For small fires, use water spray, dry chemical, carbon dioxide or chemical foam.

Autoignition Temperature:

Not applicable.

Explosion Limits:

Lower: Not available. Upper: Not available.

Flash Point:

Not applicable.

NFPA Rating:

(estimated) Health: 1; Flammability: 0; Reactivity: 0

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

In case of spill, sweep up solid or absorb liquid with inert material, then place into a biohazard container. Wear protective equipment.

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with skin and eyes. Keep container tightly closed. Avoid ingestion and inhalation.

Storage:

Store in a cool place in the original container and protect from sunlight.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Good general ventilation should be sufficient to control airborne levels.

Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
HEPES	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Human Fibrinogen	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Sodium hydroxide	2 mg/m ³ Ceiling	10 mg/m ³ IDLH 2 mg/m ³ Ceiling	2 mg/m ³ TWA

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Lithium chloride	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Polybrene	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.

OSHA Vacated PELs

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State:	Solid
Color:	white
Odor:	Odorless.
pH:	No information found
Vapor Pressure:	No information found
Vapor Density:	No information found
Evaporation Rate:	No information found
Viscosity:	No information found
Boiling Point:	Not available.
Freezing/Melting Point:	No information found
Decomposition Temperature:	No information found
Solubility in water:	Not available.
Specific Gravity/Density:	No information found
Molecular Formula:	Not applicable.
Molecular Weight:	No information found

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

None reported.

Incompatibilities with Other Materials

None reported.

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None.

Hazardous Polymerization

Has not been reported

Section 11 - Toxicological Information**RTECS:**

CAS# 7365-45-9: TL6809000.

CAS# 9001-32-5 unlisted.

CAS# 1310-73-2: WB4900000.

CAS# 7447-41-8: OJ5950000.

CAS# 9011-04-5: MO1400000.

LD50/LC50:

CAS# 7365-45-9:

No information foundCAS# 9001-32-5:

No information foundCAS# 1310-73-2:

Draize test, rabbit, eye: 400 ug Mild

Draize test, rabbit, eye: 1% Severe

Draize test, rabbit, eye: 50 ug/24H Severe

Draize test, rabbit, eye: 1 mg/24H Severe

Draize test, rabbit, skin: 500 mg/24H Severe.

CAS# 7447-41-8:

Draize test, rabbit, eye: 100 mg/24H Moderate

Draize test, rabbit, skin: 500 mg/24H Severe

Oral, mouse: LD50 = 1165 mg/kg

Oral, mouse: LD50 = 1165 mg/kg

Oral, rabbit: LD50 = 800 mg/kg

Oral, rabbit: LD50 = 775 mg/kg

Oral, rat: LD50 = 526 mg/kg

Oral, rat: LD50 = 1530 mg/kg

Skin, rabbit: LD50 = 1629 mg/kg

Skin, rat: LD50 = 1488 mg/kg.

CAS# 9011-04-5:

No information found

Carcinogenicity:

CAS# 7365-45-9: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 9001-32-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 1310-73-2: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 7447-41-8: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 9011-04-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

No information found

Teratogenicity:

No information found

Reproductive:

No information found

Mutagenicity:

No information found

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No information found

Other:

See actual entry in RTECS for complete information.

Section 12 - Ecological Information

No information found

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Part 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P Series Wastes

None of the components are on this list.

RCRA U Series Wastes

None of the components are on this list.

Section 14 - Transport Information**US DOT****Canadian TDG****Proper Shipping Name:** No information found

No information found

Hazard Class:**UN Number:****Packing Group:****Section 15 - Regulatory Information****US Federal****TSCA**

CAS# 7365-45-9 is listed on the TSCA Inventory.
CAS# 9001-32-5 is listed on the TSCA Inventory.
CAS# 1310-73-2 is listed on the TSCA Inventory.
CAS# 7447-41-8 is listed on the TSCA Inventory.
CAS# 9011-04-5 is not listed on the TSCA Inventory. It is for research and development use only.

Health and Safety Reporting List

None of the components are on this list.

Chemical Test Rules

None of the components are on this list.

TSCA Section 12b

None of the components are on this list.

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None of the components are on this list.

CERCLA Hazardous Substances and corresponding RQs

CAS# 1310-73-2: 1000 lb final RQ; 454 kg final RQ

SARA Section 302 Extremely Hazardous Substances

None of the components are on this list.

SARA Hazard Categories

CAS# 7365-45-9: acute.

CAS# 1310-73-2: acute, reactive.

CAS# 7447-41-8: acute, chronic.

CERCLA/SARA Section 313

None of the components are on this list.

Clean Air Act - Hazardous Air Pollutants (HAPs)

None of the components are on this list.

Clean Air Act - Class 1 Ozone Depletors

None of the components are on this list.

Clean Air Act - Class 2 Ozone Depletors

None of the components are on this list.

Clean Water Act - Hazardous Substances

CAS# 1310-73-2 is listed as a Hazardous Substance under the CWA.

Clean Water Act - Priority Pollutants

None of the components are on this list.

Clean Water Act - Toxic Pollutants

None of the components are on this list.

OSHA - Highly Hazardous

None of the components are on this list.

US State**State Right to Know**

Sodium hydroxide can be found on the following state Right-to-Know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

California Regulations

CAS# 7365-45-9: No information found

CAS# 9001-32-5: No information found

CAS# 1310-73-2: No information found

CAS# 7447-41-8: No information found

CAS# 9011-04-5: No information found

European/International Regulations**European Labelling in Accordance with EC Directives:**

Hazard Symbols:

Risk Phrases:

Safety Phrases:

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CAS# 7365-45-9: No information found
CAS# 9001-32-5: 0
CAS# 1310-73-2: 1
CAS# 7447-41-8: 1
CAS# 9011-04-5: 2

United Kingdom Occupational Exposure Limits

No information found

Canadian DSL/NDSL

CAS# 7365-45-9 is listed on Canada's DSL List.
CAS# 9001-32-5 is listed on Canada's DSL List.
CAS# 1310-73-2 is listed on Canada's DSL List.
CAS# 7447-41-8 is listed on Canada's DSL List.

Canadian WHMIS Classifications

This product does not have a WHMIS classification.

Canadian Ingredient Disclosure List

CAS# 7365-45-9 is not listed on Canada's Ingredient Disclosure List.
CAS# 9001-32-5 is not listed on Canada's Ingredient Disclosure List.
CAS# 1310-73-2 is listed on Canada's Ingredient Disclosure List.
CAS# 7447-41-8 is not listed on Canada's Ingredient Disclosure List.
CAS# 9011-04-5 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 1310-73-2: OEL-AUSTRALIA:TWA 2 mg/m³
OEL-BELGIUM:STEL 2 mg/m³
OEL-DENMARK:TWA 2 mg/m³
OEL-FINLAND:TWA 2 mg/m³
OEL-FRANCE:TWA 2 mg/m³
OEL-GERMANY:TWA 2 mg/m³
OEL-JAPAN:STEL 2 mg/m³
OEL-THE NETHERLANDS:TWA 2 mg/m³
OEL-THE PHILIPPINES:TWA 2 mg/m³
OEL-SWEDEN:TWA 2 mg/m³
OEL-SWITZERLAND:TWA 2 mg/m³;STEL 4 mg/m³
OEL-THAILAND:TWA 2 mg/m³
OEL-TURKEY:TWA 2 mg/m³
OEL-UNITED KINGDOM:TWA 2 mg/m³;STEL 2 mg/m³
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

Section 16 - Other Information

Color information has been
MSDS Creation Date: September 2, 1997
Revision Date: March 16, 2007

ACC# 90141



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Version: 6

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The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.